

## CLAIMS

1. High strength alloy of aluminium-zinc-magnesium-copper system comprising  
 5 (in mass.%):

Zn 6.35-8.0 Si 0.01-0.2

Mg 0.5-2.5 Fe 0.06-0.25

Cu 0.8-1.3 Zr 0.07-0.2

Cr 0.001-0.05 Ti 0.03-0.1

10 Mn 0.001-0.1 Be 0.0001-0.05

and at least one element from the group of alkali-earth metals:

K 0.0001-0.01

Na 0.0001-0.01

Ca 0.0001-0.01

15 Al-balance

2. High strength aluminium-based alloy of claim 1, characterized in that the sum

$Zr+2Ti \leq 0.3 \%$

~~50~~ 3. High strength aluminium-based alloy of claim 1,2 characterized in that the ratio  
~~10~~ Si:Be  $\geq 2$ .

- 20 4. The article made of the high strength aluminium-based alloy characterized in that  
 said alloy has the following composition (mass.%)

Zn 6.35-8.0 Si 0.01-0.2

Mg 0.5-2.5 Fe 0.06-0.25

Cu 0.8-1.3 Zr 0.07-0.2

25 Cr 0.001-0.05 Ti 0.03-0.1

Mn 0.001-0.1 Be 0.0001-0.05

and at least one element from the group of alkali-earth metals:

K 0.0001-0.01

Na 0.0001-0.01

30 Ca 0.0001-0.01

Al-balance